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By: Nancy Ramos Printed: Nancy Ramos

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01/09/01



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Roopa Reddy, Y. Tom Tang, Mariah R. Baughn, Randi E. Krasnow

Title: ASIP RELATED PROTEINS

Serial No.: To Be Assigned Filed: Herewith

Examiner: To Be Assigned Group Art Unit: To Be Assigned

Commissioner for Patents
Box Sequence
Washington, D.C. 20231

SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR §1.821- 1.825, Applicants hereby submit one (1) diskette containing the computer-readable information for the "Sequence Listing" of the above-identified application. The diskette complies with the requirements of 37 CFR §1.824 and is IBM PC compatible using a UNIX operating system with PERL Program.

Accompanying the application is the paper copy of the Sequence Listing as disclosed in the application.

The content of the "Sequence Listing" paper copy is identical to the computer readable copy, as required under 37 CFR § 1.821(f).

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: January 9, 2001

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<110> Reddy, Roopa
Tang, Y. Tom
Baughn, Mariah R.
Krasnow, Randi E.

<120> ASIP-RELATED PROTEINS

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<213> Homo sapiens

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PC-0032 US

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PC-0032 US

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PC-0032 US

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PC-0032 US

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<211> 211
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<212> DNA

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<211> 249
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<223> Incyte ID No: 2582063H1

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<400> 21
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gctgggggtgc taaagtgcct gtgaatccccatgtggaaaaa agctggaggt gaaagctcag 180
cataccatgt atttacttta aaaacagaaaaaaaagacatgtatggatatgtctatTTTT 240
ttttattgg 249
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<210> 22
<211> 549
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7246093H1

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<400> 22
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cggtgaccccg ctacccggaaag gccatcgcca aggatccaaa ctactggata caggtgcata 120
gcttggaaaca tggagatggc ggaatactag accttgcata cattttgtt gatgttagcag 180
acgataaaaga cagactggta gcagtttttgc atgagcggaa tccacatcac ggaggtgtatg 240
gcaccagtgc cagttccacg ggtaccggaa gcccagagat atttggtagt gagcttggca 300
ccaacaatgt ctcagccctt cagccttacc aagcaacaag tggaaatttgc gtcacaccc 360
cagtccttcg agcaaaatatg ccttttcatg ttgcacgcag tagtgcacca gctctaattt 420
gcctctccac ttctgtcagt gatagtaatt ttccctctga agagccttca aggaaaaatc 480
ccacacgctg gtcaacaaca gctggcttcc tcaagcagaa cactgctggg agtcctaaaa 540
cctqcgaca

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<210> 23
<211> 502

PC-0032 US

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7978420H1

<400> 23
ggggagccca gagatattt gtagtgagct tggcaccaac aatgtctcag ccttcagcc 60
ttaccaagca acaagtgaaa ttgaggtcac accttcagtc cttcgagcaa atatgcctct 120
tcatgttcga cgcagtagtg acccagctct aattggcctc tccacttctg tcagtatag 180
taattttcc tctgaagagc cttcaaggaa aaatcccaca cgctggtaa caacagctgg 240
cttcctcaag cagaacactg ctgggagttcc taaaacctgc gacaggaaga aagatgaaaa 300
ctacagaagc ctccccgggg atactagtaa ctggtctaac caatttcaga gagacaatgc 360
tgcgtcgtct ctgagtgcca gtcacccaaat ggtgggcaag tggctggaga aacaagaaca 420
ggatgaggat gggacagaag aggataacag tcgtgttcaa cctgttgacatgc 480
gggtttggag catataccca ac 502

<210> 24
<211> 611
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 55040412H1

<400> 24
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gacacgggtt tggagcatat acccaactt tctctggatg atatggtaaa gctcgcagaa 120
gtcccccaacg atggagggcc tctggaaatc catgtatgc ctttcagtc tcgaggcggc 180
agaacccctgg gtttattatg aaaacgattt gagaagggtt gtaaagctga acatgaaaat 240
cttttcgtt agaatgattt cattgtcagg attaatgtt ggcacccatg aaatagaaga 300
tttgaacaag cacaacatat gtttcgcattt gccatgcgtt caccatcat ttggttccat 360
gtgggttcctg cagcaataa agagcgttat gaacaactat cccaaagtga gaagaacaat 420
tactattcaa gccgttttag ccctgacagc cgttatattt acaacaggag tttttttttt 480
gcagggtcgc acacgtgcgca gagagcaccc cgactgaacc acccgcttgc gcagatagac 540
tctcactcaa gactacctca tagcgcacac ccctcgaa aaccaccatc cgctccatcc 600
tcatggacag c 611

<210> 25
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2929484F6

<220>
<221> unsure
<222> 405, 441
<223> a, t, c, g, or other

<400> 25
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PC-0032 US

gcgcacaccc ctcggaaaaa ccaccatccg ctccagcctc ggcacctcag aatgtattta 120
gtacgactgt aagcagtgg tataacacca aaaaaatagg caagaggctt aatatccagc 180
ttaagaaagg tacagaaggt ttgggattca gcatcacttc cagagatgt acaatagggt 240
gctcagctcc aatctatgtg aaaaacatcc tccccgggg ggcggccatt caggatggcc 300
gacttaaggc aggagacaga cttatagagg taaatgggt agatttagtg ggccaatccc 360
aagaggaagt tgttcgctg ttgagaagca ccaagatgga aggantgtga gcttctggtc 420
tttcgccagg aagacgcttc nacccaaggg aactgaatgc ag 462

<210> 26

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5627320R8

<400> 26

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ctgaatcatt aagtggact tcaaattgtca gaaattccct ggtgccatca ggtgtaaagaa 120
caatatcctc atcttctgct ttgcgttctt ttggaaatctg catctggctt ggatctgcat 180
tcagttccct tgggttggaaag gcgtcttctt ggcgaaagac cagaaggctc acagttccctt 240
ccatcttggt gcttctcaac agcgaaacaa cttcccttgc ggatttggcc actaaatcta 300
ctccattttac ctctataagt ctgtcttgc acttaagtgc gccatctga atggccgccc 360
ccgggggaga atgtt 375

<210> 27

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3209128F6

<400> 27

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caccaggAAA tttctgacat ttgaagtccc acttaatgtat tcaggatctg caggccttgg 120
tgtcagtgtc aaaggttaacc ggtcaaaaaga gaaccacgca gatttggaaat tctttgtcaa 180
gtccatttatt aatggaggag cagcatctaa agatggaaagg cttcggttga atgatcaact 240
gatagcagta aatggagaat ccctgttggg caagacAAAC caagatgcca tggaaaccct 300
aagaaggctt atgtctactg aaggcaataa acgaggaatg atccagctt ttgttgcag 360
gagaataaAGC aagtgcataAGC agctgaagtc acctgggAGC cccccctggac ctgagctgcc 420
cattgaaaca gcgttggatg atagagaacg aagaatttcc cattccctt acagtggat 480
tgaggggctt gatgaatcgg ccagcagaaa tgctggctc agtaggataa tgggtgagtc 540
agg 543

<210> 28

<211> 220

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 349248H1

PC-0032 US

<220>

<221> unsure

<222> 167

<223> a, t, c, g, or other

<400> 28

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catctctctg accagtcctc ttccagctcc catgatgatg tgggtttgt gacggcagat 120
gttgtactt gggccaaggc tgcaatcagt gattcagccg actgctntt gagtccagat 180
gttgatccag ttcttgcttt tcaacgagaa ggatttggac 220

<210> 29

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7019961H1

<400> 29

gtgcttcctc cacatctctc tgaccagtcc tcttcagct cccatgatga tgtgggttt 60
gtgacggcag atgctgtac ttgggccaag gctcaatca gtgattcagc cgactgctct 120
tttagtccag atgttgatcc agttcttgc tttcaacgag aaggattttg acgtcagagt 180
atgtcagaaa aacgcacaaa gcaatttca gatgccagtc aattggattt cgtaaaaaca 240
cgaaaaatcaa aaagcatgga tttaggtata gctgacgaga ctaaactcaa tacagtggat 300
gaccagaaaag cagggtctcc cagcagagat gtgggtcctt ccctgggtct gaagaagtca 360
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ttccatcgtc cacggccgct gataatcaga ggcagggtat gcaatgagag cttagagact 480
gccatcgaca aatcttatga taaacccgct gtagatgatg atgatgaagg catggagacc 540
tttggagaag acacagaaga cagttcacga tcagggagag agtctgtatc cacagccagg 600
atcaggcttc cac 613

<210> 30

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6303175H2

<400> 30

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ccaaagaagg aatgctgaag ggcttggag acatgttcag gttggcaaa catgaaaag 120
atgacaagat tgaaaaacg gtaaaaataa aaatacagga atcctttaca tcagaagagg 180
agaggatacg aatgaagcag gacgaggaga ggattcaagc caaaactcga gaatttaggg 240
aacgacaag 249

<210> 31

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PC-0032 US

<223> Incyte ID No: 2549906F6

<220>

<221> unsure

<222> 137, 164, 463

<223> a, t, c, g, or other

<400> 31

aggagaagggtaaaaatgaaa gccaagaagg gaatgctgaa gggcttggga gacatgttca 60
ggtttggcaa acatcgaaaa gatgacaaga ttgagaaaac gggtaaaata aaaatacagg 120
aatcctttac atcagangag gagaggatac gaatgaagca ggancaggag aggattcaag 180
ccaaaactcg agaattttagg gaacgacaag ctcgagagcg tgactatgct gaaattcaag 240
attttcatcg gacatttggc tgtgatgatg agttaatgta tgggggagtt tcttctttag 300
aagggttccat ggctctcaac gctagaccc agagcccacg agaagggcat atgatggatg 360
cttgtatgc ccaagtcaag aagccgcgga attccaaacc ctcacctgta gacagtaaca 420
gatcaactcc tagcaatcat gatcgatc agcgatcgag gcnagaattt cagcaagcaa 480
agcaagatga agatgttagaa g 501

<210> 32

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1945452H1

<400> 32

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tgtatgccc agtcaagaag ccgcggaaatt ccaaaccctc acctgttagac agtaacagat 120
caactcctag caatcatgat cggatacagc gtctgaggca agaatttcag caagcaaagc 180
aagatgaaga tgtagaagat cgtcgccgga cctatagtt tgagcaaccc tggccgaacg 240
cacggccggc gacgcagagc gggcg 265

<210> 33

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2549906T6

<220>

<221> unsure

<222> 77, 194, 196, 441, 466

<223> a, t, c, g, or other

<400> 33

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gcctcgcaac ctgaganggg gagggggggca catcttgcgg gaagggcccc ttggggaggg 120
cgtaactggg gtcctggact ttcttatacg agtcatagtt gctggggcccc tcggaaaggag 180
gctgcttctt catnanctgc tccttccggc tctgttctg gcgaaggagc tcctgagttt 240
ccagcatgac cctggcggtt aagccatgtc ctcccaggta gccgttccctg gagccttggt 300
agctggagta cctggggttc tctttggcac tctgaaagcc ttccccaggg gagtagttct 360
gctcccaaga gtcctgggag accgagctgg cattttcct gctttgccga ggcagagagc 420

tgtactggcg ctgggcctgt ngggagtctc gcgcctcctcc tgccgntgc 469
 <210> 34
 <211> 558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 71009002V1

<400> 34
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 aaccccccaggta actccagcta ccaaggctcc aggaacggct acctgggagg acatggcttc 180
 aacggccaggta catgctggaa actcaggagc tccttcgcca ggaacagagg cggaaggagc 240
 agcagatgaa gaagcagcct cttccggagg ggcccagcaa ctatgactcg tataagaaaag 300
 tcggcaggacc cagttacgccc cttcccaagg ggcccttccg gcaagatgtg ccccccctccc 360
 ctctcaggt tgcgaggctg aacagacttc agactcctga gaaaggagg cccttctatt 420
 cctgagcactg caaataaacgg atgcttcatg tcgcgcaata aaagacattt tcctatgaag 480
 acttgttattt cgggagttt ttaaaaacctt cgatggtaact atggagtata ctggcgtgg 540
 tatcagtgcctttaagcg 558

<210> 35
 <211> 632
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 71008521V1

<220>
 <221> unsure
 <222> 605
 <223> a, t, c, g, or other

<400> 35
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 caaaaaggacc cccatggta ccaaacaatg ttggactatg gcttagcttc tgtaatagga 180
 tgaccgactc tcccgtcaca aagagcttagaaaggaaaga gaaaaccaca gtgatgacaa 240
 agtacgacaa atggctgtgc tgtgaagtac cagaaagccc caattttgg tttatgtcgc 300
 ccacttttc tccaccagag actaagatgtt catccatag ctaagagaac tttagagggag 360
 aaacaggggcc gcacgtcatac ctccacttca ggtgaatttg tcactgcaag tggtcaggg 420
 atgttacaac caagccgcgg acaactcatg agtagggccg agattcctgg tactgtggag 480
 aggcgcagag catatgaaca cctcaaacag atgattgtca cagggtgaaa aatccttcca 540
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 accgnttaaa ggcactgata ccaacaacag aa 632

<210> 36
 <211> 646
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 71010168V1

<400> 36

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gcccagcttc ccccggcagg agccactcct gtctcccacg ttccccacac agagctgtgg 120
tgactcaacc cacgtgtcag gaacaggacc gaacaagcgt atgtataaac gcagaccagg 180
atcatcaatt tattggtaat gttgagtcatt aaggcagttt caaaaggacc cccatggtga 240
ccaaacaatg ttggactatg gcttagcttc tgtaatagga tgaccgactc tcccgtcaca 300
aagagctgaa aaaggaaaaga gaaaaccaca gtgatgacaa agtacgacaa atggctgtgc 360
tggtgaagta ccagaaaagcc ccaatttttgcgtatgtcg cccacttttccaccaccaga 420
gactaagatg tcataccata gctaagagaa cttagaggga gaaacaggcgc cgacacgtcat 480
cctccacttc aggtgaattt gtcactgcaa gtggcagg gatgttacaa ccaagccgcg 540
gacaactcat gagtagggcc gagattccctg gtactgtgga gaggcgcaga gcatatgaac 600
acctaacaaca gatgatgtcc cagggtggga aatccttcca tgaaac 646

<210> 37

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70090181V1

<400> 37

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ggtttacaat acaggatgtt cagaacaatg aaggaagatg ggagccacccg agatccccga 120
gaccacacaca cacactctaa tactgacgcg agagtgagct tcctgccacc accgctgtgg 180
gaccggaaaaa tggctctgt gtgatgtgtt acggctttc ctttgtctt tatgtttcat 240
ggcagaacta cttagagcgt tggcatcgcc agtcagacat gcagtgtgtg gatgcattag 300
acaagcatca attgcctctg acttgaaaaa ccgttagagag cagatcaaaa tgactgtctg 360
gtttatctct gtcccattct gtgcccttcc tgacaagctg tcagaacaaaa aactaattaa 420
aataattact aggatgtact gggccatgag ctcttcctag gagaaattct ttcttagctc 480
tcccctcatg atagacac 498

<210> 38

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6833928H1

<400> 38

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ctacggtttt tcaagtccaga ggcaattgtat gcttgtctaa tgcattccaca cactgcatgt 120
ctgactggcg atgccacgccttaaactgtatgtt tctgccatga aacataaaaag acaaaggaaa 180
agccgttaca catcacacag agaacatttt cgggtccac acgcgggtggc gcaggaagct 240
cactctcgcc tcagtattag agtgtgtgtg tgggtctcggtt ggtctcggt ggctccatc 300
ttccttcattt gttctgaaca tccctgtattt taaaccatgg ctgggggtgtt aaagtgcctg 360
tgaatcccga tggaaaaaaa gctggaggtt aaagctcagc ataccatgtt tttactttaa 420
aaacagaaaaa aaagacatgtt atggatatgtt ctatttttt tttatggcata catggtattt 480
ttgtgtggac ttgttttagt aaatgtgtt tccacacacg taccctgttc tcttcgtcat 540
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<210> 39
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 70089663V1

<400> 39
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tagagtgtgt gtgtgggtct cggggatctc ggtggctccc atttccctc attgttctga 180
acatccctgtt ttgtaaacca tggctgggtt gctaaagtgc ctgtgaatcc cgatgtggaa 240
aaagctggag gtgaaagctc agcataccat gtatttactt taaaaacaga aaaaaagaca 300
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tagaaaatgtt gtgtccacac acgtacccgt gtctcttctg catttctgtt tcattgttct 420
gtttcttaat cacgtgcggc ggtgtctaag tgggttacc agtgtacgcg cagtgacctt 480
ggatgacagt ggctttgct cacagcctcc cctgagctgt gagacacagc tttctctgtt 540
catatgcac 550

<210> 40
<211> 514
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702231139H1

<400> 40
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gatttagta tagctgacga gaactaaact caatacagt gatgaccaga gagcaggctc 120
ccccaaataga gatgtggac ctccttggg tctgaagaaa tccagcttt tagaaaagtct 180
ggagacggct gttgctgagg tgaccctgaa tggaaacatt ctttccacc gcccacggcc 240
acgaatcatc cgaggaaggg gctgcaacga gagcttcaga gcccattt acaagtccta 300
cgataagccc atggggatg acgacgacga aggcatggag accttggaa aagacacaga 360
agaaaagttca aggtcagggg gggagtcgt gtccacgtcc agtgatcagc cttccttattc 420
tctggagaga caaatgaatg gagacccaga gaagaggac aaggcagaga agaaaaagga 480
caaagccgg aaggataaga agaaagaccc agag 514

<210> 41
<211> 544
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700273304F6

<400> 41
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caacgagacg ttcagagccg ccattgacaa gtcctacgtt aagcccatgg tggatgacga 120
cgacgaaggc atggagacct tggagaaga cacagaagaa agttcaaggt cagggaggga 180
gtccgtgtcc acgtccagtg atcagccttc ctattctctg gagagacaaa tgaatggaga 240
cccagagaag agggacaagg cagagaagaa aaaggacaaa gccggaaagg ataagaagaa 300

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agaccgagag aaggagaagg ataaaactcaa agccaagaag gggatgctga aaggcttggg 360
ggacatgttc agcctggcca aactgaagcc ggagaagaga tgaacagcat gccagactca 420
aactgtctt gacagcacaa gttgcacaat tgtttttaa aagcacggtg tctgggctgt 480
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tata 544

<210> 42
<211> 272
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700330856H1

<400> 42
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aggggaccgt gagccttctg gtcttcgtc aagaagaggc tttccagcca agggaaatga 120
atgccaacc cagccagatg cagagtccaa aagaaacgaa agccgaagac gaggacattg 180
ttctcacacc tgacggtacc agggagttc tgacttcga agttccactg aatgactcag 240
ggtctgcagg gcttgggtgc agcgtcaagg gg 272

<210> 43
<211> 300
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700273304H1

<400> 43
actgaatggg aacattcctt tccaccgccc acggccacga atcatccgag gaaggggctg 60
caacgagagc ttcaagccg ccattgacaa gtcctacgt aagcccattgg tggatgacga 120
cgacgaaggc atggagacct tggagaagaaga cacagaagaa agttcaaggt cagggaggga 180
gtccgtgtcc acgtccagtg atcagcctc ctattctctg gagagacaaa tgaatggaga 240
cccagagaag agggacaagg cagagaagaa aaaggacaaa gccggaaagg ataagaagaa 300

<210> 44
<211> 300
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701517518H1

<400> 44
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tgcgcactc agcagataa tgggtaaatg ccagctctcc ccaaccgtga acatgccaca 120
tcatgacact gtcatgattg aagatgacag gctgcgttg ctccctctc acctctctga 180
ccagtcctcc tccagctccc atgatgacgt gggattcata atgacagaag caggcacgtg 240
ggccaaggct accatcagtg actcagccga ctgctcattg actccagatg ttgatccgg 300

<210> 45
<211> 544

PC-0032 US

<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701834089T1

<220>
<221> unsure
<222> 11-12, 17, 130-191
<223> a, t, c, g, or other

<400> 45
aaacctgagt nnccttnaca acccaaagta aatttattgt ttggattttt aaaaaacttt 60
cttgagaca cgttcgtgt atcccaggct gcgcctcgac actacgtatg caggatgacc 120
ttgaacttcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn ntatagggtg ctggggattg agccacggc tttgtgtaca ccaggcaggc 240
actctagact gagccacagc ccagacacccg tgctttaaa aaacaattgt gcaacttgc 300
ctgtccaaga cagttgagt ctggcatgt gttcatctc tctccggcct cagttggcc 360
aggtctgaaaca tgtcccccaa gccttcagc atcccctct tggcttccag tttatcctc 420
tccttctctc ggtcttctt cttatcctt ccggcttctt ccttttctt ctctgcctt 480
tccttctctc ctgggtctcc attcatttgt ctctccagag aataggaagg ctgatcactg 540
gacg 544

<210> 46
<211> 196
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701480437H1

<400> 46
ctctctctct ctcatccttg actgactaac ttcttgctt tattgccaga caaagcagga 60
agaatgccag ctctgtatca caggattctt gggacacagaa ctacgcccctt ggtgaaggct 120
tccagagtgc caaggagaac cccaggtatt ccagttacca gggctccagg aacggctatc 180
taggtggcca tggctt 196

<210> 47
<211> 273
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701190235H1

<400> 47
gcagatgtaa cgagttgcgg tctcctggga gccccgctgc acccgatctg cccataaaaa 60
cagagtggaa tgacagacaa cgcaggatct cacactccctt ctacagtggg atcgatggc 120
tgatgatgtc tcccaccagg aatgccgcac tcagcaggat aatgggtaaa tgccagctct 180
ccccaaaccgtt gaacatgcta catgatgaca ctgtcatgtat tgaagatgac aggctgcctg 240
tgctcactcc tcacccctctt gaccaggctt cctt 273

<210> 48

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<211> 248
<212> DNA
<213> *Rattus norvegicus*

<220>
<221> misc_feature
<223> Incyte ID No: 700939688H1

<400> 48

cagagaagag	ggacaaggca	gagaagaaaa	aggacaaagc	cggaaaggat	aagaagaaaag	60
accgagagaa	ggagaaggat	aaactgaaag	ccaagaaggg	gatgctgaaa	ggcttggggg	120
acatgttcag	cctggccaaa	ctgaagccgg	agaagagatg	aacagcatgc	cagactcaaa	180
ctgtcttgg	cagcacaagt	tgcacaattg	ttttttaaaa	gcacgggtgc	tgggctgtgg	240
ctcagtct						248

<210> 49

<211> 351

<212> DNA

<213> *Rattus norvegicus*

<220>

<221> misc_feature

<223> Incyte ID No: 700939688F6

<220>

<221> unsure

<222> 337

<223> a, t, c, g, or other

<400> 49

cagagaagag	ggacaaggca	gagaagaaaa	aggacaaaagc	cgaaaaaggat	aagaagaaaag	60
accgagagaaa	ggagaaggat	aaactgaaaag	ccaagaagggg	gatgtgtaaa	ggcttgggggg	120
acatgttcag	cctggccaaa	ctgaagccgg	agaagagatg	aacagcatgc	cagactcaaa	180
ctgtcttggaa	cagcacaagt	tgcacaatttg	ttttttaaaaaa	gcacgggtgtc	tgggctgtgg	240
ctcagtcttag	aagatgcctg	cctggctgtaa	cacaagagcc	agtggagctc	aagtccccag	300
acagccctat	agaaccagcg	tgtggtagac	acatgcncgt	tcatcccagc	a	351

<210> 50

<211> 571

<212> DNA

<213> *Rattus norvegicus*

<220>

<221> misc_feature

<223> Incyte ID No: 702582937T1

<400> 50

cacttttagca	acccaggcctt	ggtttacaat	acaggatgtt	cagaccaaca	gatgaacggc	60
gggaacacgg	agggcctcg	gccacaggca	tgcacggaga	atgggactcc	cggtgctcag	120
agggacatcg	acaggtcctc	gagtgggatg	gctctccttc	tgtttgcgaa	taaacagcag	180
agtcaactcg	taatgttggc	ctcgtcaggt	cgggacatgg	tatgaggata	taggagacca	240
aatcctgact	gcaacctcaa	aagctgtt	gagggtgatt	ctcagaatcc	caagtgactg	300
accttttcc	ttgatcccac	tctgtgcctc	ccttgacaaac	ctacggtgac	acgaagtaaa	360
gtaaggactg	gatagaccgg	cctaagctcc	tccagagagt	cttcctcag	actcctatct	420
ccttcctcgg	ggtgcgtaca	catgggccac	tcccatgccc	cttggccccg	agtgtcatga	480
gtgactgaaa	ctgaacgcac	gtacttatag	aaccactgac	tagaaatcg	ctgttagat	540

gggtgggtgg agttataaag ggcagttgga a

571

<210> 51

<211> 694

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 700299037F6

<400> 51

ctctagggtg gtagtgaaga agctaagcca taggccagtg ccgttgggtc tggggggta 60
 gggtaactt ccaactgcct tataactcca ccaccatata cacagcgatt ctagtcagtg 120
 tttataagta catgcgttca gtttcagtc ctcacatgacac tcggaaacaa gggcatggg 180
 agtgccccat gtgtacgcac cccgaggaag gagataggag ctgagggaaag actctctgga 240
 ggagcttagg ccggcttatac cagtccttac tttacttcgt gtcaccgttag gttgtcaagg 300
 gaggcacaga gtgggacaag gaaaaaggta agtcacttgg gattctgaga atcaacctca 360
 acacagctt tgaggttgca gtcaggattg gtctcttata tcctcataacc atgtcccgac 420
 ctgacgaggc caacattact gatgtactt gctgtttatt cacaacacaga aggagagcca 480
 tcccactcga ggacctgtcg atgtccctt gagcaccggg agtcccattc tccgtcatg 540
 cctgtggcac gaggcctccg tttcccccgtt gttcatctgt tggctctgaac atcctgtatg 600
 taaaaccaagg ctgggttgct aaagtgcctg agaatctcga tataaaaaaac aaaaaacaaa 660
 aaaaatccttg gggcaaaagc tcagagtacc atgt 694

<210> 52

<211> 110

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701246488H1

<400> 52

gattgaagat gacaggctgc ctgtgctccc tcctgacctc tctgaccagg cgtctccag 60
 ctcccatgat gacgtggat tcataatgac agaagcaggc acgtgggcca 110

<210> 53

<211> 578

<212> DNA

<213> Canis familiaris

<220>

<221> misc_feature

<223> Incyte ID No: 702759912H1

<400> 53

atgaaaagtga ccgtgtgctt cggggcggacc cgggtggtc tgccgtgcgg ggacgggcac 60
 atgaaaagttt tcagcctcat ccagcaagcg gtgacccgct accggaaaggc catcgccaag 120
 gatccaaact actggataca ggtgcacccg cttgaacatg gagatggagg aataactagac 180
 ctgtatgaca ccctctgtga ttttagcagat gataaaagaca gactggtagc agtgtttgat 240
 gagcaagatc cacatcatgg aggtgtatggc accagtgcac gctccacagg taccagagt 300
 ccagagatat ttggcagtga gcttggcacc aacaatgttt cagccttca gccttatcaa 360
 gctacaagtg aaatttggat cacaccttca gttcttcgtg caaatatgcc tcttcatgtc 420
 cgacgaagca gtgacccggc ttaatttggc ctttcaactt ccatcagtga cactaatttt 480

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ccttctgaag agccttcacg gaagaacccc acacgttggt caacaacagc tggcttctg 540
aagcaaaaca ctgctggcag ccctaatact gtgacaaa 578

<210> 54
<211> 293
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 700112340H1

<400> 54
gggcatttga ctgagatgtc ccaaagggtgc ctatttgaag agcattatga tccaaactac 60
tggatacagg tgcacatcgctt ggagcatgtga gatggaggga ttcttagacact ggatgacatc 120
ctctgtgacg ttgctgtatgtcaaaagacaga ctggtagcag tattttgtatgtac acaggatccc 180
caccatggag gagatggtac cagcgcacgc tccacgggaa cccagatgcc agagatattc 240
ggcagtgagc tgggcaccaa caatgtttct gctttcagc cttatcaagc cac 293

<210> 55
<211> 233
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 700827810H1

<400> 55
cgcgccggc atcgcagagt ggtcggcact cgggtgtccgt ggaggttcaa gtacaacggc 60
agcgccagga ggagcgagag agcttccacgc aggcccacgc ccagtacacgc tcactgccaa 120
gacaaaagcag gaagaatgcc agctccatatacaggatttgc tggaaacag aagagtgaag 180
aaatctttgg gcaagtatgg ccctagcgt gtagaaagaca ccacaggaag tgg 233

<210> 56
<211> 222
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 700109331H1

<400> 56
gggcatctca aatgcacatc aaactaatct ttttgcacaa ttgacactt gtaaaatttat 60
tttctctatt gctaaaaata aatagacat gtgtttggga ccctgagtttcatcccaag 120
catccgaacc ttactcaaag aatcatggag attgtactca ctacctaaat ccatgctttt 180
tgattttcgt gtttaacga aatccaattt actggcatct ga 222

<210> 57
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: g6661750

<400> 57

aaggggcgct gccgcgagcc tccgggcctc agggtgttcc ggggagcggc gccccgggtc 60
tctgggccccca cccgccccgg gcgtcctccg agagtggggg ctgcgcggc ggggtcagac 120
acctgttcgg cccggccccgg cgtggtcgccc gggggccagg atgaaagtga ccgtgtgctt 180
cggcaggacg ggcatacggtt tgccctgcaa ggagggccag ctgcgcgtcg gcgagctcac 240
ccagcaggcg ctgcagcggtt acctgaagac ccgggagaag ggtcctgtt actgggtgaa 300
gattcatcac ttagaatata cagatggagg aatcctggat ccagatgtatg tcttggcaga 360
tgttgttga 369

<210> 58

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: GNN.g10801482_004.edit

<400> 58

gccccggccg cacatggttc gaggccgagg ctgcaatgag agcttagag cagccattga 60
caaatacctac gatggacctg aagaaataga agctgacggt ctgtctgata agagctctca 120
ctctggccaa ggagctctga attgtgagtc tgccctcag gggattcgg agctagagga 180
catggaaaat aaagccagga aagtcaaaaa aacgaaagag aaggagaaga aaaaggaaaa 240
gggcaatttgg aaagtcagg agaaaaaagcg caaagaggag aatgaagatc cagaaaggaa 300
aataaaagaag aagggttcg ggcgcattgtt gaggtatggg cctgctttga aggccaaatgtc 360
ggttctcatt ttgtctctcc tgaaaaaaagc gcacgccttt cctcgtcttc agccaaatgtc 420
atacggctct caattctgtt ctcgttctt ttctgcagag gcagaggagc tttttggga 480
aagttacagt gatgacagga cactgtctta a 511

<210> 59

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g6993427

<400> 59

ccagtttat cttttttctt atcagtctta tcacccttctt cttggtttcc attcattttgt 60
ctctccagag agtggaaagg ctgatcaactg gctgtggata cagactctct ccctgatctt 120
gaactttctt ctgtgtcttc ttccaagggtc tccatgcctt catcatcatc atctaccacg 180
ggttatcat aagattgtc gatggcagct ctgaagctctt cattgcattcc cctgcctctg 240
attatccgcg gccgtggacg atggaaaggaa atatccccat tcaaagtctac ctcggcaact 300
gccccgtctgc gactctccaa cgagcttgcac ttcttcagac ccagggaaagg acccacatct 360
ctgctggag aacctgtttt ctggtcattcc actgtattga gtttagtctc gtcagctata 420
cctaaatcca tgcttttga ttttcgtt ttaacgaaat ccaattgtact ggcacatctgaa 480
aattgttttgc tgcttttgc tgacatactc tgacgtccaa atccttctcg ttgaaaagca 540
agaactggat caacatctgg actcaaagag cagtcgggtg aatcaactgtat 591

<210> 60

<211> 389

<212> DNA

<213> Homo sapiens

PC-0032 US

<220>
<221> misc_feature
<223> Incyte ID No: g5529915

<400> 60
ttttttttca gttttatcct tttttctatc agtcttatca cctttcttgg ggtttccatt 60
cattttgtctc tccagagagt gggaggctg atcactggct gtggatacag actctctccc 120
tgatcttcaa ctttcttctg tgccttcttc caaggtctcc atgccttcat catcatcatc 180
taccgggggt ttatcataag atttgcgtat ggcagctctg aagctctcat tgcattccct 240
gcctctgatt atccggggcc gtggacgatg gaaaggaata tccccattca aagtccaccc 300
ggcaactgcg gtctgcagac tctccaaacga gcttacttc ttcagaccca ggaaaggacc 360
cacatctctg ctgggagaac ctgtttct 389

<210> 61
<211> 367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: g1733437

<400> 61
ggaaaaccaag agaaaggta taagactgat agaaaaagg ataaaactgg aaaagaaaaag 60
aagaaaagata gagataagga gaaggataaa atgaaagcca agaaggaaat gctgaaggc 120
ttgggagaca tggtcaggtt tggcaaacat cgaaaagatg acaagattga gaaaacgggt 180
aaaataaaaa tacagaatc ctttacatca gaagaggaga ggatacgaat gaagcaggag 240
caggagagga ttcaagccaa aactcgagaa ttttagggAAC cgacaagctc gagagcgtga 300
ctatgctgaa attcaagatt ttcatcgac atttggctgt gatgatgagt taatgtatgg 360
ggaggtt 367

<210> 62
<211> 1337
<212> PRT
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: g3868778

<400> 62
Met Lys Val Thr Val Cys Phe Gly Arg Thr Arg Val Val Val Pro
1 5 10 15
Cys Gly Asp Gly Arg Met Lys Val Phe Ser Leu Ile Gln Gln Ala
20 25 30
Val Thr Arg Tyr Arg Lys Ala Val Ala Lys Asp Pro Asn Tyr Trp
35 40 45
Ile Gln Val His Arg Leu Glu His Gly Asp Gly Gly Ile Leu Asp
50 55 60
Leu Asp Asp Ile Leu Cys Asp Val Ala Asp Asp Lys Asp Arg Leu
65 70 75
Val Ala Val Phe Asp Glu Gln Asp Pro His His Gly Gly Asp Gly
80 85 90
Thr Ser Ala Ser Ser Thr Gly Thr Gln Ser Pro Glu Ile Phe Gly
95 100 105
Ser Glu Leu Gly Thr Asn Asn Val Ser Ala Phe Arg Pro Tyr Gln

110	115	120
Thr Thr Ser Glu Ile Glu Val Thr Pro	Ser Val Leu Arg Ala Asn	
125	130	135
Met Pro Leu His Val Arg Arg Ser Ser	Asp Pro Ala Leu Thr Gly	
140	145	150
Leu Ser Thr Ser Val Ser Asp Asn Asn	Phe Ser Ser Glu Glu Pro	
155	160	165
Ser Arg Lys Asn Pro Thr Arg Trp Ser	Thr Thr Ala Gly Phe Leu	
170	175	180
Lys Gln Asn Thr Thr Gly Ser Pro Lys	Thr Cys Asp Arg Lys Lys	
185	190	195
Asp Glu Asn Tyr Arg Ser Leu Pro Arg	Asp Pro Ser Ser Trp Ser	
200	205	210
Asn Gln Phe Gln Arg Asp Asn Ala Arg	Ser Ser Leu Ser Ala Ser	
215	220	225
His Pro Met Val Asp Arg Trp Leu Glu	Lys Gln Glu Gln Asp Glu	
230	235	240
Glu Gly Thr Glu Glu Asp Ser Ser Arg	Val Glu Pro Val Gly His	
245	250	255
Ala Asp Thr Gly Leu Glu Asn Met Pro	Asn Phe Ser Leu Asp Asp	
260	265	270
Met Val Lys Leu Val Gln Val Pro Asn	Asp Gly Gly Pro Leu Gly	
275	280	285
Ile His Val Val Pro Phe Ser Ala Arg	Gly Gly Arg Thr Leu Gly	
290	295	300
Leu Leu Val Lys Arg Leu Glu Lys Gly	Gly Lys Ala Glu Gln Glu	
305	310	315
Asn Leu Phe His Glu Asn Asp Cys Ile	Val Arg Ile Asn Asp Gly	
320	325	330
Asp Leu Arg Asn Arg Arg Phe Glu Gln	Ala Gln His Met Phe Arg	
335	340	345
Gln Ala Met Arg Ala Arg Val Ile Trp	Phe His Val Val Pro Ala	
350	355	360
Ala Asn Lys Glu Gln Tyr Glu Gln Leu	Ser Gln Arg Glu Met Asn	
365	370	375
Asn Tyr Ser Pro Gly Arg Phe Ser Pro	Asp Ser His Cys Val Ala	
380	385	390
Asn Arg Ser Val Ala Asn Asn Ala Pro	Gln Ala Leu Pro Arg Ala	
395	400	405
Pro Arg Leu Ser Gln Pro Pro Glu Gln	Leu Asp Ala His Pro Arg	
410	415	420
Leu Pro His Ser Ala His Ala Ser Thr	Lys Pro Pro Thr Ala Pro	
425	430	435
Ala Leu Ala Pro Pro Asn Val Leu Ser	Thr Ser Val Gly Ser Val	
440	445	450
Tyr Asn Thr Lys Arg Val Gly Lys Arg	Leu Asn Ile Gln Leu Lys	
455	460	465
Lys Gly Thr Glu Gly Leu Gly Phe Ser	Ile Thr Ser Arg Asp Val	
470	475	480
Thr Ile Gly Gly Ser Ala Pro Ile Tyr	Val Lys Asn Ile Leu Pro	
485	490	495
Arg Gly Ala Ala Ile Gln Asp Gly Arg	Leu Lys Ala Gly Asp Arg	
500	505	510
Leu Ile Glu Val Asn Gly Val Asp Leu	Ala Gly Lys Ser Gln Glu	
515	520	525
Glu Val Val Ser Leu Leu Arg Ser Thr	Lys Met Glu Gly Thr Val	

	530	535	540											
Ser	Leu	Leu	Val	Phe	Arg	Gln	Glu	Glu	Ala	Phe	His	Pro	Arg	Glu
	545	550	555											
Met	Asn	Ala	Glu	Pro	Ser	Gln	Met	Gln	Ser	Pro	Lys	Glu	Thr	Lys
	560	565	570											
Ala	Glu	Asp	Glu	Asp	Ile	Val	Leu	Thr	Pro	Asp	Gly	Thr	Arg	Glu
	575	580	585											
Phe	Leu	Thr	Phe	Glu	Val	Pro	Leu	Asn	Asp	Ser	Gly	Ser	Ala	Gly
	590	595	600											
Leu	Gly	Val	Ser	Val	Lys	Gly	Asn	Arg	Ser	Lys	Glu	Asn	His	Ala
	605	610	615											
Asp	Leu	Gly	Ile	Phe	Val	Lys	Ser	Ile	Ile	Asn	Gly	Gly	Ala	Ala
	620	625	630											
Ser	Lys	Asp	Gly	Arg	Leu	Arg	Val	Asn	Asp	Gln	Leu	Ile	Ala	Val
	635	640	645											
Asn	Gly	Glu	Ser	Leu	Leu	Gly	Lys	Ala	Asn	Gln	Glu	Ala	Met	Glu
	650	655	660											
Thr	Leu	Arg	Arg	Ser	Met	Ser	Thr	Glu	Gly	Asn	Lys	Arg	Gly	Met
	665	670	675											
Ile	Gln	Leu	Ile	Val	Ala	Arg	Arg	Ile	Ser	Arg	Cys	Asn	Glu	Leu
	680	685	690											
Arg	Ser	Pro	Gly	Ser	Pro	Ala	Ala	Pro	Glu	Leu	Pro	Ile	Glu	Thr
	695	700	705											
Glu	Leu	Asp	Asp	Arg	Glu	Arg	Arg	Ile	Ser	His	Ser	Leu	Tyr	Ser
	710	715	720											
Gly	Ile	Glu	Gly	Leu	Asp	Glu	Ser	Pro	Thr	Arg	Asn	Ala	Ala	Leu
	725	730	735											
Ser	Arg	Ile	Met	Gly	Glu	Ser	Gly	Lys	Cys	Gln	Leu	Ser	Pro	Thr
	740	745	750											
Val	Asn	Met	Pro	His	Asp	Asp	Thr	Val	Met	Ile	Glu	Asp	Asp	Arg
	755	760	765											
Leu	Pro	Val	Leu	Pro	Pro	His	Leu	Ser	Asp	Gln	Ser	Ser	Ser	Ser
	770	775	780											
Ser	His	Asp	Asp	Val	Gly	Phe	Ile	Met	Thr	Glu	Ala	Gly	Thr	Trp
	785	790	795											
Ala	Lys	Ala	Thr	Ile	Ser	Asp	Ser	Ala	Asp	Cys	Ser	Leu	Ser	Pro
	800	805	810											
Asp	Val	Asp	Pro	Val	Leu	Ala	Phe	Gln	Arg	Glu	Gly	Phe	Gly	Arg
	815	820	825											
Gln	Ser	Met	Ser	Glu	Lys	Arg	Thr	Lys	Gln	Phe	Ser	Asn	Ala	Ser
	830	835	840											
Gln	Leu	Asp	Phe	Val	Lys	Thr	Arg	Lys	Ser	Lys	Ser	Met	Asp	Leu
	845	850	855											
Gly	Ile	Ala	Asp	Glu	Thr	Lys	Leu	Asn	Thr	Val	Asp	Asp	Gln	Arg
	860	865	870											
Ala	Gly	Ser	Pro	Asn	Arg	Asp	Val	Gly	Pro	Ser	Leu	Gly	Leu	Lys
	875	880	885											
Lys	Ser	Ser	Ser	Leu	Glu	Ser	Leu	Gln	Thr	Ala	Val	Ala	Glu	Val
	890	895	900											
Thr	Leu	Asn	Gly	Asn	Ile	Pro	Phe	His	Arg	Pro	Arg	Pro	Arg	Ile
	905	910	915											
Ile	Arg	Gly	Arg	Gly	Cys	Asn	Glu	Ser	Phe	Arg	Ala	Ala	Ile	Asp
	920	925	930											
Lys	Ser	Tyr	Asp	Lys	Pro	Met	Val	Asp	Asp	Asp	Asp	Glu	Gly	Met
	935	940	945											
Glu	Thr	Leu	Glu	Glu	Asp	Thr	Glu	Glu	Ser	Ser	Arg	Ser	Gly	Arg

950	955	960
Glu Ser Val Ser Thr Ser Ser Asp Gln	Pro Ser Tyr Ser Leu	Glu
965	970	975
Arg Gln Met Asn Gly Asp Pro Glu Lys	Arg Asp Lys Ala Glu	Lys
980	985	990
Lys Lys Asp Lys Ala Gly Lys Asp Lys	Lys Asp Arg Glu	Lys
995	1000	1005
Glu Lys Asp Lys Leu Lys Ala Lys	Gly Met Leu Lys	Gly Leu
1010	1015	1020
Gly Asp Met Phe Arg Phe Gly Lys His	Arg Lys Asp Asp	Lys Met
1025	1030	1035
Glu Lys Met Gly Arg Ile Lys Ile Gln	Asp Ser Phe Thr	Ser Glu
1040	1045	1050
Glu Asp Arg Val Arg Met Lys Glu Glu	Gln Glu Arg Ile	Gln Ala
1055	1060	1065
Lys Thr Arg Glu Phe Arg Glu Arg Gln	Ala Arg Glu Arg Asp	Tyr
1070	1075	1080
Ala Glu Ile Gln Asp Phe His Arg Thr	Phe Gly Cys Asp Asp	Glu
1085	1090	1095
Leu Leu Tyr Gly Gly Met Ser Ser Tyr	Asp Gly Cys Leu	Ala Leu
1100	1105	1110
Asn Ala Arg Pro Gln Ser Pro Arg Glu	Gly His Leu Met Asp	Thr
1115	1120	1125
Leu Tyr Ala Gln Val Lys Lys Pro Arg	Ser Ser Lys Pro	Gly Asp
1130	1135	1140
Ser Asn Arg Ser Thr Pro Ser Asn His	Asp Arg Ile Gln Arg	Leu
1145	1150	1155
Arg Gln Glu Phe Gln Gln Ala Lys	Gln Asp Glu Asp Val	Glu Asp
1160	1165	1170
Arg Arg Arg Thr Tyr Ser Phe Glu Gln	Ser Trp Ser Ser	Ser Arg
1175	1180	1185
Pro Ala Ser Gln Ser Gly Arg His Ser	Val Ser Val Glu Val	Gln
1190	1195	1200
Val Gln Arg Gln Arg Gln Glu Glu Arg	Glu Ser Phe Gln Gln	Ala
1205	1210	1215
Gln Arg Gln Tyr Ser Ser Leu Pro Arg	Gln Ser Arg Lys Asn	Ala
1220	1225	1230
Ser Ser Val Ser Gln Asp Ser Trp Glu	Gln Asn Tyr Ala Pro	Gly
1235	1240	1245
Glu Gly Phe Gln Ser Ala Lys Glu Asn	Pro Arg Tyr Ser Ser	Tyr
1250	1255	1260
Gln Gly Ser Arg Asn Gly Tyr Leu Gly	Gly His Gly Phe Asn	Ala
1265	1270	1275
Arg Val Met Leu Glu Thr Gln Glu Leu	Leu Arg Gln Glu Gln	Arg
1280	1285	1290
Arg Lys Glu Gln Gln Leu Lys Lys Gln	Pro Pro Ala Asp	Gly Val
1295	1300	1305
Arg Gly Pro Phe Arg Gln Asp Val Pro	Pro Ser Pro Ser Gln	Val
1310	1315	1320
Ala Arg Leu Asn Arg Leu Gln Thr Pro	Glu Lys Gly Arg Pro	Phe
1325	1330	1335
Tyr Ser		

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

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<400> 63

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Cys	Gly	Asp	Gly	His	Met	Lys	Val	Phe	Ser	Leu	Ile	Gln	Gln	Ala
					20				25					30
Val	Thr	Arg	Tyr	Arg	Lys	Ala	Ile	Ala	Lys	Asp	Pro	Asn	Tyr	Trp
					35				40					45
Ile	Gln	Val	His	Arg	Leu	Glu	His	Gly	Asp	Gly	Gly	Ile	Leu	Asp
					50				55					60
Leu	Asp	Asp	Ile	Leu	Cys	Asp	Val	Ala	Asp	Asp	Lys	Asp	Arg	Leu
					65				70					75
Val	Ala	Val	Phe	Asp	Glu	Gln	Asp	Pro	His	His	Gly	Gly	Asp	Gly
					80				85					90
Thr	Ser	Ala	Ser	Ser	Thr	Gly	Thr	Gln	Ser	Pro	Glu	Ile	Phe	Gly
					95				100					105
Ser	Glu	Leu	Gly	Thr	Asn	Asn	Val	Ser	Ala	Phe	Gln	Pro	Tyr	Gln
					110				115					120
Ala	Thr	Ser	Glu	Ile	Glu	Val	Thr	Pro	Ser	Val	Leu	Arg	Ala	Asn
					125				130					135
Met	Pro	Leu	His	Val	Arg	Arg	Ser	Ser	Asp	Pro	Ala	Leu	Ile	Gly
					140				145					150
Leu	Ser	Thr	Ser	Val	Ser	Asp	Ser	Asn	Phe	Ser	Ser	Glu	Glu	Pro
					155				160					165
Ser	Arg	Lys	Asn	Pro	Thr	Arg	Trp	Ser	Thr	Thr	Ala	Gly	Phe	Leu
					170				175					180
Lys	Gln	Asn	Thr	Ala	Gly	Ser	Pro	Lys	Thr	Cys	Asp	Arg	Lys	Asp
					185				190					195
Glu	Asp	Gly	Thr	Glu	Glu	Asp	Asn	Ser	Arg	Val	Glu	Pro	Val	Gly
					200				205					210
His	Ala	Asp	Thr	Gly	Leu	Glu	His	Ile	Pro	Asn	Phe	Ser	Leu	Asp
					215				220					225
Asp	Met	Val	Lys	Leu	Val	Glu	Val	Pro	Asn	Asp	Gly	Gly	Pro	Leu
					230				235					240
Gly	Ile	His	Val	Val	Pro	Phe	Ser	Ala	Arg	Gly	Gly	Arg	Thr	Leu
					245				250					255
Gly	Leu	Leu	Val	Lys	Arg	Leu	Glu	Lys	Gly	Gly	Lys	Ala	Glu	His
					260				265					270
Glu	Asn	Leu	Phe	Arg	Glu	Asn	Asp	Cys	Ile	Val	Arg	Ile	Asn	Asp
					275				280					285
Gly	Asp	Leu	Arg	Asn	Arg	Arg	Phe	Glu	Gln	Ala	Gln	His	Met	Phe
					290				295					300
Arg	Gln	Ala	Met	Arg	Thr	Pro	Ile	Ile	Trp	Phe	His	Val	Val	Pro
					305				310					315
Ala	Ala	Asn	Lys	Glu	Gln	Tyr	Glu	Gln	Leu	Ser	Gln	Ser	Glu	Lys
					320				325					330
Asn	Asn	Tyr	Tyr	Ser	Ser	Arg	Phe	Ser	Pro	Asp	Ser	Gln	Tyr	Ile
					335				340					345
Asp	Asn	Arg	Ser	Val	Asn	Ser	Ala	Gly	Leu	His	Thr	Val	Gln	Arg
					350				355					360

Ala	Pro	Arg	Leu	Asn	His	Pro	Pro	Glu	Gln	Ile	Asp	Ser	His	Ser
						365			370					375
Arg	Leu	Pro	His	Ser	Ala	His	Pro	Ser	Gly	Lys	Pro	Pro	Ser	Ala
						380			385					390
Pro	Ala	Ser	Ala	Pro	Gln	Asn	Val	Phe	Ser	Thr	Thr	Val	Ser	Ser
						395			400					405
Gly	Tyr	Asn	Thr	Lys	Lys	Ile	Gly	Lys	Arg	Leu	Asn	Ile	Gln	Leu
						410			415					420
Lys	Lys	Gly	Thr	Glu	Gly	Leu	Gly	Phe	Ser	Ile	Thr	Ser	Arg	Asp
						425			430					435
Val	Thr	Ile	Gly	Gly	Ser	Ala	Pro	Ile	Tyr	Val	Lys	Asn	Ile	Leu
						440			445					450
Pro	Arg	Gly	Ala	Ala	Ile	Gln	Asp	Gly	Arg	Leu	Lys	Ala	Gly	Asp
						455			460					465
Arg	Leu	Ile	Glu	Val	Asn	Gly	Val	Asp	Leu	Val	Gly	Lys	Ser	Gln
						470			475					480
Glu	Glu	Val	Val	Ser	Leu	Leu	Arg	Ser	Thr	Lys	Met	Glu	Gly	Thr
						485			490					495
Val	Ser	Leu	Leu	Val	Phe	Arg	Gln	Glu	Asp	Ala	Phe	His	Pro	Arg
						500			505					510
Glu	Leu	Lys	Ala	Glu	Asp	Glu	Asp	Ile	Val	Leu	Thr	Pro	Asp	Gly
						515			520					525
Thr	Arg	Glu	Phe	Leu	Thr	Phe	Glu	Val	Pro	Leu	Asn	Asp	Ser	Gly
						530			535					540
Ser	Ala	Gly	Leu	Gly	Val	Ser	Val	Lys	Gly	Asn	Arg	Ser	Lys	Glu
						545			550					555
Asn	His	Ala	Asp	Leu	Gly	Ile	Phe	Val	Lys	Ser	Ile	Ile	Asn	Gly
						560			565					570
Gly	Ala	Ala	Ser	Lys	Asp	Gly	Arg	Leu	Arg	Val	Asn	Asp	Gln	Leu
						575			580					585
Ile	Ala	Val	Asn	Gly	Glu	Ser	Leu	Leu	Gly	Lys	Thr	Asn	Gln	Asp
						590			595					600
Ala	Met	Glu	Thr	Leu	Arg	Arg	Ser	Met	Ser	Thr	Glu	Gly	Asn	Lys
						605			610					615
Arg	Gly	Met	Ile	Gln	Leu	Ile	Val	Ala	Arg	Arg	Ile	Ser	Lys	Cys
						620			625					630
Asn	Glu	Leu	Lys	Ser	Pro	Gly	Ser	Pro	Pro	Gly	Pro	Glu	Leu	Pro
						635			640					645
Ile	Glu	Thr	Ala	Leu	Asp	Asp	Arg	Glu	Arg	Arg	Ile	Ser	His	Ser
						650			655					660
Leu	Tyr	Ser	Gly	Ile	Glu	Gly	Leu	Asp	Glu	Ser	Pro	Ser	Arg	Asn
						665			670					675
Ala	Ala	Leu	Ser	Arg	Ile	Met	Gly	Lys	Tyr	Gln	Leu	Ser	Pro	Thr
						680			685					690
Val	Asn	Met	Pro	Gln	Asp	Asp	Thr	Val	Ile	Ile	Glu	Asp	Asp	Arg
						695			700					705
Leu	Pro	Val	Leu	Pro	Pro	His	Leu	Ser	Asp	Gln	Ser	Ser	Ser	Ser
						710			715					720
Ser	His	Asp	Asp	Val	Gly	Phe	Val	Thr	Ala	Asp	Ala	Gly	Thr	Trp
						725			730					735
Ala	Lys	Ala	Ala	Ile	Ser	Asp	Ser	Ala	Asp	Cys	Ser	Leu	Ser	Pro
						740			745					750
Asp	Val	Asp	Pro	Val	Leu	Ala	Phe	Gln	Arg	Glu	Gly	Phe	Gly	Arg
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Gln	Ile	Ala	Asp	Glu	Thr	Lys	Leu	Asn	Thr	Val	Asp	Asp	Gln	Lys
						770			775					780

Ala Gly Ser Pro Ser Arg Asp Val Gly Pro Ser Leu Gly Leu Lys
 785 790 795
 Lys Ser Ser Ser Leu Glu Ser Leu Gln Thr Ala Val Ala Glu Val
 800 805 810
 Thr Leu Asn Gly Asp Ile Pro Phe His Arg Pro Arg Pro Arg Ile
 815 820 825
 Ile Arg Gly Arg Gly Cys Asn Glu Ser Phe Arg Ala Ala Ile Asp
 830 835 840
 Lys Ser Tyr Asp Lys Pro Ala Val Asp Asp Asp Glu Gly Met
 845 850 855
 Glu Thr Leu Glu Glu Asp Thr Glu Glu Ser Ser Arg Ser Gly Arg
 860 865 870
 Glu Ser Val Ser Thr Ala Ser Asp Gln Pro Ser His Ser Leu Glu
 875 880 885
 Arg Gln Met Asn Gly Asn Gln Glu Lys Gly Asp Lys Thr Asp Arg
 890 895 900
 Lys Lys Asp Lys Thr Gly Lys Glu Lys Lys Lys Asp Arg Asp Lys
 905 910 915
 Glu Lys Asp Lys Met Lys Ala Lys Lys Gly Met Leu Lys Gly Leu
 920 925 930
 Gly Asp Met Phe Arg Phe Gly Lys His Arg Lys Asp Asp Lys Ile
 935 940 945
 Glu Lys Thr Gly Lys Ile Lys Ile Gln Glu Ser Phe Thr Ser Glu
 950 955 960
 Glu Glu Arg Ile Arg Met Lys Gln Glu Gln Glu Arg Ile Gln Ala
 965 970 975
 Lys Thr Arg Glu Phe Arg Glu Arg Gln Ala Arg Glu Arg Asp Tyr
 980 985 990
 Ala Glu Ile Gln Asp Phe His Arg Thr Phe Gly Cys Asp Asp Glu
 995 1000 1005
 Leu Met Tyr Gly Gly Val Ser Ser Tyr Glu Gly Ser Met Ala Leu
 1010 1015 1020
 Asn Ala Arg Pro Gln Ser Pro Arg Glu Gly His Met Met Asp Ala
 1025 1030 1035
 Leu Tyr Ala Gln Val Lys Lys Pro Arg Asn Ser Lys Pro Ser Pro
 1040 1045 1050
 Val Asp Ser Asn Arg Ser Thr Pro Ser Asn His Asp Arg Ile Gln
 1055 1060 1065
 Arg Leu Arg Gln Glu Phe Gln Gln Ala Lys Gln Asp Glu Asp Val
 1070 1075 1080
 Glu Asp Arg Arg Arg Thr Tyr Ser Phe Glu Gln Pro Trp Pro Asn
 1085 1090 1095
 Ala Arg Pro Ala Thr Gln Ser Gly Arg His Ser Val Ser Val Glu
 1100 1105 1110
 Val Gln Met Gln Arg Gln Arg Gln Glu Glu Arg Glu Ser Ser Gln
 1115 1120 1125
 Gln Ala Gln Arg Gln Tyr Ser Ser Leu Pro Arg Gln Ser Arg Lys
 1130 1135 1140
 Asn Ala Ser Ser Val Ser Gln Asp Ser Trp Glu Gln Asn Tyr Ser
 1145 1150 1155
 Pro Gly Glu Gly Phe Gln Ser Ala Lys Glu Asn Pro Arg Tyr Ser
 1160 1165 1170
 Ser Tyr Gln Gly Ser Arg Asn Gly Tyr Leu Gly Gly His Gly Phe
 1175 1180 1185
 Asn Ala Arg Val Met Leu Glu Thr Gln Glu Leu Leu Arg Gln Glu
 1190 1195 1200

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Gln Arg Arg Lys Glu Gln Gln Met Lys Lys Gln Pro Pro Ser Glu
1205 1210 1215
Gly Pro Ser Asn Tyr Asp Ser Tyr Lys Lys Val Gln Asp Pro Ser
1220 1225 1230
Tyr Ala Pro Pro Lys Gly Pro Phe Arg Gln Asp Val Pro Pro Ser
1235 1240 1245
Pro Ser Gln Val Ala Arg Leu Asn Arg Leu Gln Thr Pro Glu Lys
1250 1255 1260
Gly Arg Pro Phe Tyr Ser
1265